File 344:Chinese Patents ABS Apr 1985-2000/Aug
(c) 2000 European Patent Office
File 347:JAPIO Oct 1976-2000/Jul(UPDATED 001114)
(c) 2000 JPO & JAPIO
File 350:Derwent WPIX 1963-2000/UD,UM &UP=200061
(c) 2000 Derwent Info Ltd
File 371:French Patents 1961-2000/BOPI 0047
(c) 2000 INPI. All rts. reserv.

Set	Items	Description
S1	109730	LIQUID()CRYSTAL()DISPLAY? OR LCD
S2	1497177	FIRST OR PRIMARY(3N)LIGHT?()SOURCE?
S3	13	FIRST()(EMISSION OR BACK)()FACE?
S4	16	SECOND()(EMISSION OR INCIDENT()END OR BACK)()FACE?
S5	287	EMISSION()FACE?
S6	12257	BACK()FACE?
S7	2930	INCIDENT?(3N)FACE?
S8	1999	(MAJOR OR MINOR)(3N)FACE?
S9	1123	SIDE()LIGHT?
S10	2586276	ADJUST? OR ALTER? OR MODIF? OR CHANG?
S11	136573	INTENSIT?
S12	1237010	ILLUMINAT? OR LIGHT?
S13	5268	S10(5N)S12(3N)S11
S14	83819	WIDE(3N)RANGE?
S15	67179	(DUAL OR TWO OR TWICE OR DIFFERENT)(3N)DIRECT?
S16	1334	SURFACE()LIGHT()SOURCE?
S17	1159081	VIEW? OR DISPLAY?
S18	37821	GUIDE(3N)PLATE?
S19	59	WEDGE()LIKE(5N)CROSS?()SECTION?
S20	69928	WEDGE?
S21	328035	CROSS(3N)SECTION?
S22	175974	IC=G02F
S23	0	S1 AND S2 AND S5 AND S7 AND S8 AND S9
S24	11847	S1 AND (S2 OR S5 OR S7 OR S8 OR S9)
S25	7800	S22 AND S24
S26	0	S25 AND S13 AND S14 AND S15
S27	0	S25 AND S16 AND S17 AND S18 AND S19
S28	228	S25 AND (S13 OR S14 OR S15)
S29	0	S28 AND S13 AND S14 AND S15
S30	7	S28 AND S13
S31	76	S28 AND S14
S32	147	S28 AND S15
S33	2	S31 AND S15
S34	106	S1 AND S9
S35	0	S34 AND S13
S36	0	S34 AND S15 AND S17
S37	0	S34 AND S15
S38	0	S1 AND S3 AND S4

30/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

06354085 **Image available**
LIQUID CRYSTAL DISPLAY DEVICE

PUB. NO.: 11-295692 [JP 11295692 A]
PUBLISHED: October 29, 1999 (19991029)
INVENTOR(s): AOKI YOSHIHIKO
APPLICANT(s): SONY CORP
APPL. NO.: 10-104985 [JP 98104985]
FILED: April 15, 1998 (19980415)

LIQUID CRYSTAL DISPLAY DEVICE

INTL CLASS: **G02F-001/133** ; **G02F-001/133** ; G09G-003/18

ABSTRACT

PROBLEM TO BE SOLVED: To provide a **liquid crystal display** device with which illumination is automatically controlled so as to secure sufficient visibility or to prolong a continuously usable time.

SOLUTION: The **liquid crystal display** device having a light source 13 for lighting a liquid crystal panel 11 is provided...
... lightness of the light source 13 by enlarging the degree of a change in the **lightness** of the **light** source in respect to a **change** in the **intensity** of external **light** in a second range among a **first** range of the prescribed intensity of this external light, a second range having the intensity higher than this **first** range and a third range having the intensity higher than this second range rather than the **first** and third ranges corresponding to the intensity of external light detected by the detecting means...

30/3,K/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO

04859426 **Image available**
PROJECTION TYPE DISPLAY DEVICE

PUB. NO.: 07-152026 [JP 7152026 A]
PUBLISHED: June 16, 1995 (19950616)
INVENTOR(s): SONEHARA TOMIO
ARIGA SHUJI
APPLICANT(s): SEIKO EPSON CORP [000236] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 06-163813 [JP 94163813]
FILED: July 15, 1994 (19940715)

INTL CLASS: **G02F-001/1335** ; G02B-027/10; **G02F-001/13** ; G03B-033/12; H04N-009/31

ABSTRACT

PURPOSE: To provide a projection type **liquid crystal display** device capable of **adjusting** the **intensity** of respective color **light** beams...

... a light source, color separation means 1 and 2 separating a light beam from the **light source** to three **primary** colors, three transmission type liquid crystal light valves 4 modulating the respective color light beams...

30/3,K/3 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO

04011859 **Image available**
TELEVISION RECEIVER

PUB. NO.: 05-003559 [JP 5003559 A]
PUBLISHED: January 08, 1993 (19930108)
INVENTOR(s): MASE AKIRA
YAMAZAKI SHUNPEI
APPLICANT(s): SEMICONDUCTOR ENERGY LAB CO LTD [470730] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 03-018488 [JP 9118488]
FILED: January 17, 1991 (19910117)
JOURNAL: Section: E, Section No. 1369, Vol. 17, No. 261, Pg. 73, May 21, 1993 (19930521)

INTL CLASS: H04N-005/74; **G02F-001/133** ; **G02F-001/136** ; G09F-009/35; H01L-029/784

ABSTRACT

PURPOSE: To obtain the lightweight and large sized receiver using a **liquid crystal display** device enabling satisfactory gradation display by not executing the gradation display at a matrix liquid crystal device for display but hourly **changing** the **intensity** of a **light** source for **illumination** .

...

...CONSTITUTION: **First** and second devices 80 and 81 using liquid crystal are the liquid crystal devices having...

...The outputs of these complementary transistors are linked to the picture elements. By using the **first** liquid crystal device 80 having the matrix constitution as the **first** device for displaying pictures and the second liquid crystal device 81 which can change transmissivity, the gradation of pictures projected through the **first** and second liquid crystal devices 80 and 81 onto a screen 83 is displayed.

30/3,K/4 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

011090867 **Image available**
WPI Acc No: 1997-068792/199707
XRPX Acc No: N97-056594
Projector type LCD device with optical modulator - has first optical element which converts shape and intensity of incident light beams into required form
Patent Assignee: TOSHIBA KK (TOKE)
Inventor: HONGUH Y; SHIRATSUCHI M
Number of Countries: 002 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 8313845	A	19961129	JP 95255018	A	19951002	199707	B
US 5995303	A	19991130	US 95537302	A	19950929	200003	

Priority Applications (No Type Date): JP 9556906 A 19950316; JP 94238122 A 19940930
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 8313845	A		32	G02B-027/09	
US 5995303	A			G02B-013/18	

Projector type LCD device with optical modulator...

...**has first optical element which converts shape and intensity of**

incident light beams into required form

...Abstract (Basic): The device includes a **first** optical element (103) which **changes** predetermined shape and **intensity** of an incident **light** into a required form. The **light** beam output from the optical element is of circular, rectangular or elliptical shape...
...Title Terms: **LCD** ;
...International Patent Class (Additional): **G02F-001/13**

30/3,K/5 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

010790516 **Image available**
WPI Acc No: 1996-287469/199629
XRPX Acc No: N96-241272
Stereoscopic display method e.g. for video display using LCD - using polarising filters and LCD to rotate polarised light and present independent image to each eye with viewer wearing polarising spectacles
Patent Assignee: GAUDREAU J (GAUD-I); GAUDREAU J E (GAUD-I)
Inventor: GAUDREAU J; GAUDREAU J E
Number of Countries: 068 Number of Patents: 007
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9618268	A1	19960613	WO 95CA693	A	19951211	199629	B
AU 9641689	A	19960626	AU 9641689	A	19951211	199641	
US 5629798	A	19970513	US 94353423	A	19941209	199725	
			US 96612204	A	19960307		
EP 796542	A1	19970924	EP 95940092	A	19951211	199743	
			WO 95CA693	A	19951211		
JP 10510400	W	19981006	WO 95CA693	A	19951211	199850	
			JP 96517218	A	19951211		
EP 796542	B1	19990407	EP 95940092	A	19951211	199918	
			WO 95CA693	A	19951211		
DE 69508960	E	19990512	DE 608960	A	19951211	199925	
			EP 95940092	A	19951211		
			WO 95CA693	A	19951211		

Priority Applications (No Type Date): US 94353423 A 19941209; US 96612204 A 19960307
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9618268	A1	E	30	H04N-013/00	
Designated States (National): AL AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG UZ VN					
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG					
AU 9641689	A			H04N-013/00	Based on patent WO 9618268
US 5629798	A		10	G02B-027/46	Cont of application US 94353423
EP 796542	A1	E		H04N-013/00	Based on patent WO 9618268
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE					
JP 10510400	W		24	H04N-013/04	Based on patent WO 9618268
EP 796542	B1	E		H04N-013/00	Based on patent WO 9618268
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE					
DE 69508960	E			H04N-013/00	Based on patent EP 796542 Based on patent WO 9618268

Stereoscopic display method e.g. for video display using LCD - ...

...**using polarising filters and LCD to rotate polarised light and present independent image to each eye with viewer wearing polarising**

...Abstract (Basic): images are registered pixel by pixel. For each picture element on the display surface, the **intensity** of **light** is **adjusted** as a function of the **intensity** value of the two registered pixels of the images...

...The point of light is polarised along a **first** direction so that a portion of this polarised point lying in a second direction and...
...Abstract (Equivalent): A method for concurrently displaying **first** and second numerical images on a display surface, said **first** and second images being formed of respective identical arrays of pixels of variable light intensity...

...surface being formed of an array of picture elements for displaying the pixels of the **first** and second numerical images, said method comprising, for each picture element of said display surface...

...selecting a corresponding pixel of said **first** image and a corresponding pixel of said second image...

...polarizing the light supplied to said picture element in a **first** predetermined direction...

...rotating the light polarized in said **first** direction by a **first** rotation angle which is calculated according to the function: A1 = arccos (L2 + R2) where A1 is the **first** rotation angle, L is the light intensity of the corresponding pixel of the **first** image, and R is the light intensity of the corresponding pixel of the second image...

...which is a function of the light intensities of said selected corresponding pixels of said **first** and second images...

...polarizing the light which has been polarized in said **first** direction and rotated by said **first** rotation angle in said second predetermined direction...

...second direction to orient said polarized light into a displaying direction in which (a) a **first** component of the rotated polarized light in a **first** predetermined viewing direction corresponds to the light intensity of the selected corresponding pixel of the **first** numerical image and (b) a second component of the rotated polarized light in a second predetermined viewing direction, substantially perpendicular to said **first** viewing direction, corresponds to the light intensity of the selected corresponding pixel of the second...

...whereby concurrent display of said **first** and second numerical images on said display surface is carried out, for each picture element, through combination of said selected corresponding pixels of said **first** and second images into a polarized and rotated light which may be decomposed, through further adequate polarization along said **first** and second predetermined viewing directions, into said corresponding pixel of said **first** numerical image and said corresponding pixel of said second numerical image, respectively...
...Title Terms: **LCD** ;
...International Patent Class (Additional): **G02F-001/13** ...

...**G02F-001/1335**

30/3,K/6 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

009534009 **Image available**
WPI Acc No: 1993-227550/199328
Related WPI Acc No: 1991-268880; 1993-058980
XRPX Acc No: N93-174618

Flat panel LCD **colour display with EFD backlight - has layer of liquid crystal material receiving light emitted from phosphor strips by bombardment of electrons in vacuum chamber**

Patent Assignee: PANOCORP DISPLAY SYSTEMS (PANO-N)
Inventor: GE S; LIANG J; LIANG J Y
Number of Countries: 039 Number of Patents: 005
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9313514	A1	19930708	WO 92US10925	A	19921218	199328 B
AU 9333257	A	19930728	AU 9333257	A	19921218	199347
US 5347201	A	19940913	US 91657867	A	19910225	199436
			US 91730110	A	19910715	
			US 91812730	A	19911223	
			US 92943934	A	19920911	
US 5402143	A	19950328	US 91812730	A	19911223	199518
			US 94245454	A	19940518	
CN 1083934	A	19940316	CN 93107603	A	19930622	199525

Priority Applications (No Type Date): US 91812730 A 19911223; US 92943934 A 19920911
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9313514	A1	E	61	G09G-003/36	
Designated States (National): AU BB BG BR CA CS FI HU JP KP KR LK MG MN MW NO PL RO RU SD SE US					
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE					
AU 9333257	A			G09G-003/36	Based on patent WO 9313514
US 5347201	A		33	G09G-001/04	CIP of application US 91657867
					CIP of application US 91730110
					CIP of application US 91812730
					CIP of patent US 5170100
					CIP of patent US 5229691
US 5402143	A		24	G09G-003/36	Cont of application US 91812730
CN 1083934	A			G02F-001/13	

Flat panel LCD **colour display with EFD backlight...**

...Abstract (Basic): USE/ADVANTAGE - **LCD** display. High brightness and resolution, good colour...

...Abstract (Equivalent): electronic fluorescent device (EFD) is used as the back light source for a black/white **LCD** . Where the EFD provides red, green and blue light, the **LCD** displays multi-colour or full-colour images. The EFD includes a number of cathodes disposed...

...The control system may be such that the transmission rate of the **LCD** is proportional to the amplitude of the input signal forming an analogue system; the EFD then provides sequential red, green and blue **light** pulses of constant **intensity** . **Alternatively** , selected pixels of the **LCD** may be addressed digitally to be either on or off, and the intensities of the...

...USE/ADVANTAGE - Colour fluorescent **liquid crystal display** for displaying monochromatic, multi-colour and full-images of high brightness and high resolution...

...A **first** and a second face plate are a set of side walls or a set of...

...the face plates, define a vacuum chamber. An anode is placed on or near the **first** face plate in the chamber, with cathodoluminescent in the chamber on or near the anode...

...Title Terms: **LCD** ;
International Patent Class (Main): **G02F-001/13** ...

30/3,K/7 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

007161585
WPI Acc No: 1987-158594/198723
XRPX Acc No: N87-119037
Transmitting type display device e.g. LCD **panel - has ambient light detector near transmitting display and brightness controller** adjusting **source** light intensity
Patent Assignee: HOSIDEN ELECTRONICS CO LTD (HOSD); HOSIDEN ELTRN KK (HOSI-N); HOSIDEN CORP (HOSD)
Inventor: AOKI S; UKAI Y; YASUI M
Number of Countries: 014 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 224869	A	19870610	EP 86116446	A	19861127	198723	B
US 4760389	A	19880726	US 86932839	A	19861120	198832	
EP 224869	B1	19930203	EP 86116446	A	19861127	199305	
DE 3687701	G	19930318	DE 3687701	A	19861127	199312	
			EP 86116446	A	19861127		

Priority Applications (No Type Date): JP 85266636 A 19851127
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 224869	A	E	7		
Designated States (Regional): AT BE CH DE ES FR GB GR IT LI LU NL SE					
US 4760389	A		6		
EP 224869	B1	E	9	G02F-001/133	
Designated States (Regional): AT BE CH DE ES FR GB GR IT LI LU NL SE					
DE 3687701	G			G02F-001/133	Based on patent EP 224869

Transmitting type display device e.g. LCD **panel**...

...**has ambient light detector near transmitting display and brightness controller** adjusting **source** light intensity

...Abstract (Equivalent): The transmitting type display panel is a **liquid crystal display** panel which includes **first** and second transparent substrates. A liquid crystal is sealed between, pixel electrodes and thin-film transistors selectively driving the pixel electrodes which are formed on the inner surface of the **first** transparent substrate. The **first** transparent substrate has a projecting portion projecting outwards from the second transparent substrate...
...Title Terms: **LCD** ;
International Patent Class (Main): **G02F-001/133**
...International Patent Class (Additional): **G02F-001/13**

33/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

012241969 **Image available**
WPI Acc No: 1999-048076/199905
XRPX Acc No: N99-035193
Normally white twisted nematic liquid crystal display - **has two tilted retardation layers on rear side of liquid crystal layer, sandwiched between it and rear polariser where azimuthal angle of** first **retardation layer is parallel within ten degrees relative to front orientation direction**
Patent Assignee: OIS OPTICAL IMAGING SYSTEMS INC (OISO-N)
Inventor: BRINKLEY P F; JONES M R; VANDERPLOEG J A; XU G
Number of Countries: 027 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 887691	A2	19981230	EP 98110258	A	19980605	199905	B
CA 2239533	A	19981205	CA 2239533	A	19980601	199920	
US 5895106	A	19990420	US 97876043	A	19970613	199923	

Priority Applications (No Type Date): US 97876043 A 19970613; US 97869973 A 19970605
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 887691	A2	E	37	G02F-001/1335	
	Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI				
CA 2239533	A			G02F-001/1347	
US 5895106	A			G02F-001/1335	

Normally white twisted nematic liquid crystal display - ...

...**side of liquid crystal layer, sandwiched between it and rear polariser where azimuthal angle of** first **retardation layer is parallel within ten degrees relative to front orientation direction**

...Abstract (Basic): The normally white twisted nematic **liquid crystal display** (**LCD**) includes a twisted nematic liquid crystal layer (10) twisting at least one normally incident wavelength...

...orientation layers include at least a front and rear orientation direction respectively. The rear orientation **direction** is **different** from the front orientation **direction** . **Two** tilted retardation layers (2,6) are located on the rear side of the liquid crystal...

...The second tilted retardation layer is positioned between the **first** tilted retardation layer and the liquid crystal layer. Each tilted retardation layer has an optical...

...inclined angle which varies through the thickness of the layer. The azimuthal angle of the **first** tilted retardation layer is oriented parallel +/-10 degrees relative to the front orientation direction. The ...

...ADVANTAGE - Has high contrast ratio in viewing zone and little or no inversion over **wide range** of viewing angles...
...Title Terms: **FIRST** ;
International Patent Class (Main): **G02F-001/1335** ...

...**G02F-001/1347**

33/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

003950644
WPI Acc No: 1984-096188/198416
XRAM Acc No: C84-040871
XRPX Acc No: N84-071590

Plastics structure free from birefringence - comprises layers with optical axes vertical to normal surface

Patent Assignee: BAYER AG (FARB)
Inventor: CLAUSSEN U; HANNES H; WEBER H
Number of Countries: 009 Number of Patents: 007
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 3327929	A	19840412	DE 3327929	A	19830803	198416	B
EP 107090	A	19840502	EP 83109663	A	19830928	198419	
JP 59091051	A	19840525	JP 83187169	A	19831007	198427	
US 4544583	A	19851001	US 83536411	A	19830927	198542	
NL 8401140	A	19851101				198548	
EP 107090	B	19870722				198729	
DE 3372670	G	19870827				198735	

Priority Applications (No Type Date): DE 3237480 A 19821009; DE 3327929 A 19830803
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 3327929	A		25		
EP 107090	A	G			
Designated States (Regional): CH DE FR GB IT LI					
EP 107090	B	G			
Designated States (Regional): CH DE FR GB IT LI					

...Abstract (Basic): the plane of the film and which are arranged in such a manner that the **directions** of the **two** plastic films corresponding in each case to the larger main refractive index form an angle...

...selected in such a manner that the optical path length difference delta n1d1 in the **first** plastic film is almost identical to the optical path length difference delta n2d2 in the...

...delta n1 and delta n2 denoting the differences between the main refractive indices in the **first** and second plastic films, respectively, and d1 and d2 denoting the thicknesses of the **first** and second plastic films, respectively...

...contg. dyestuffs. (I) is less brittle, does not splinter, can more readily be prepd. in **wide range** of shapes; electronic control unit and display can be prepd. separately and bonded subsequently...

...Abstract (Equivalent): the plane of the film and which are arranged in such a manner that the **directions** of the **two** plastic films corresponding in each case to the larger main refractive index form an angle...

...selected in such a manner that the optical path length difference delta n1d1 in the **first** plastic film is almost identical to the optical path length difference delta n2d2 in the...

...delta n1 and delta n2 denoting the differences between the main refractive indices in the **first** and second plastic films, respectively, and d1 and d2 denoting the thicknesses of the **first** and second plastic films, respectively.

...Abstract (Equivalent): **LCD** comprises a birefringence free arrangement of plastic foils. Two foils having a single principal optical...

...path difference, Dn1d1, for the light waves associated with the two main refractive within the **first** foil is approx. equal to the optical path difference Dn2d2 of the second foil, where Dn1 and Dn2 are the refractive indices difference for the **first** and second films respectively and d1 and d2 are the corresp. film thicknesses

...International Patent Class (Additional): **G02F-001/01**